

obtaining a sample of body fluid from said mammal,
wherein said body fluid includes blood, blood products and
saliva;

performing an enzyme-linked immunosorbent assay (ELISA)
effective to bind myelin basic protein (MBP) and
characterized by utilizing heparin sulphate bound to non-
specific binding sites on MBP, thereby providing an assay
whose specificity is due to binding of serum antibodies to
specific binding sites on MBP;

determining a level of at least one autoantibody
selected from the group consisting of anti-MBP IgG, anti-MBP
IgM or a mixture thereof specific for said at least one
protein in said sample; and,

comparing said level of said at least one autoantibody
with statistically significant levels thereof, whereby a
diagnosis or monitoring of MS in said mammal is made.

Claim 23(NEW). The method of claim **22**, wherein said
mammal is a human.

Claim 24(NEW). The method of claim 22, wherein said
diagnosis or monitoring is carried out on a single sample.

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